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Leffingwell & Associates

Odor Properties & Molecular Visualization

Esters DETECTION THRESHOLDS & Molecular Structures

Ethyl formate... $C_3H_6O_2$

Odor Detection Threshold (in water) = 150,000 ppb

Ethereal, fruity, rum-like

Ethyl Acetate... $C_4H_8O_2$

Odor Detection Threshold (in water) = 5000 ppb

Ethereal, sharp, wine-brandy like odor

Ethyl propionate... $C_5H_{10}O_2$

Odor Detection Threshold (in water) = 10 ppb

Strong, ethereal, fruity, rum-like odor and taste

Ethyl butyrate... $C_6H_{12}O_2$

Odor Detection Threshold (in water) = 1 ppb

Ethereal, fruity odor; buttery, ripe fruit notes

Ethyl valerate... $C_7H_{14}O_2$

Odor Detection Threshold (in water) = 1.5 ppb

Strong, fruity, apple-like odor and taste

Ethyl hexanoate... $C_8H_{16}O_2$

Odor Detection Threshold (in water) = 1 ppb

Strong, fruity, winey odor; apple, banana, pineapple notes

Ethyl heptanoate... $C_9H_{18}O_2$

Odor Detection Threshold (in water) = 2.2 ppb

Strong, fruity, winey, cognac-like odor and taste

Ethyl octanoate... $C_{10}H_{20}O_2$

Flavor Detection Threshold (in water) = 15 ppb

Fruity, winey, sweet odor; cognac-apricot taste

Ethyl nonanoate... $C_{11}H_{22}O_2$

Odor Detection Threshold (in wine) = 850 ppb

Fatty, oily, cognac, nut-like odor; oily, fatty-fruity taste

Ethyl decanoate... $C_{12}H_{24}O_2$

Odor Detection Threshold (in wine) = 510 ppb

Sweet, fatty, nut-like, winey-cognac odor

[Ethyl dodecanoate...C₁₄H₂₈O₂](#)

Flavor Detection Threshold (in beer) = 2000 ppb

Oily, fatty, floral with fatty fruity taste

[Ethyl myristate...C₁₆H₃₂O₂](#)

Flavor Detection Threshold (in beer) = 2000 ppb

Weak, fatty odor

[Ethyl palmitate...C₁₈H₃₆O₂](#)

Odor Detection Threshold (in water) = >2000 ppb

Faint, waxy, sweet odor; nearly tasteless; creamy mouthfeel

Data abstracted from Flavor-Base 98

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